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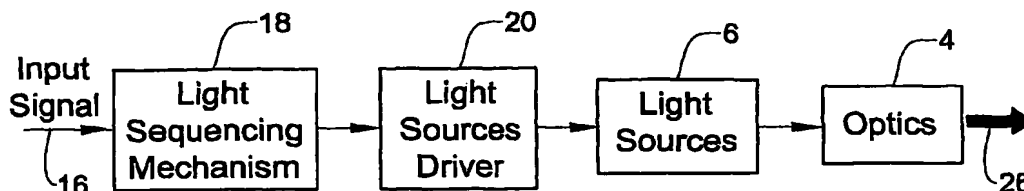
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(54) Title: OPTICAL SYSTEM AND METHOD FOR USE IN PROJECTION SYSTEMS



(57) Abstract: An optical system and method are presented to produce a desired illuminating light pattern. The system comprises a light source system configured and operable to produce structured light in the form of a plurality of spatially separated light beams; and a beam shaping arrangement. The beam shaping arrangement is configured as a diffractive optical unit configured and operable to carry out at least one of the following: (i) combining an array of the spatially separated light beams into a single light beam thereby significantly increasing intensity of the illuminating light; (ii) affecting intensity profile of the light beam to provide the illuminating light of a substantially rectangular uniform intensity profile.